

GenCore version 5.1.1.3
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OM nucleic - nucleic search, using sw model

Run on: October 23, 2002, 19:05:37 ; Search time 1593 Seconds

(without alignments)
2956.960 Million cell updates/sec

Title: US-09-728-446-819

Perfect score: 349

Sequence: 1 tattatatgtaagtacnctg.....gnnttgcccttgaaggttg 349

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 13736207 seqs, 6748477542 residues

Total number of hits satisfying chosen parameters: 27472414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

EST:

1: em_estba.*
2: em_esthum.*
3: em_estin.*
4: em_estmu.*
5: em_estov.*
6: em_estpl.*
7: em_estro.*
8: em_htc.*
9: gb_est1.*
10: gb_est2.*
11: gb_htc.*
12: gb_gss.*
13: em_gss_hum.*
14: em_gss_inv.*
15: em_gss_pln.*
16: em_gss_vrt.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	166.8	47.8	931	10 BG404028	BG404028 602419909
2	159	45.6	753	10 B1217860	B1217860 602934835
3	151.4	43.4	455	10 BE374222	BE374222 601227776
4	151.4	43.4	464	9 AA822112	AA822112 vp23h07.r
5	151.4	43.4	476	10 BG099892	BG099892 uy13e04.y
6	151.4	43.4	516	9 AA239346	AA239346 my40h01.r
7	151.4	43.4	543	10 BE625196	BE625196 uu22e07.y
8	151.4	43.4	557	9 AA238931	AA238931 my36g11.r
9	151.4	43.4	573	9 AA153192	AA153192 ms62f10.r
10	151.4	43.4	600	10 BG801735	BG801735 0114-09 M
11	151.4	43.4	600	10 BG801778	BG801778 0114-88 M
12	151.4	43.4	601	9 AA238738	AA238738 my35h09.r
13	151.4	43.4	612	9 AW742453	AW742453 up57c12.y
14	151.4	43.4	615	9 AW742230	AW742230 up54a09.y
15	151.4	43.4	616	10 B1683665	B1683665 603306204
16	151.4	43.4	617	10 BE375516	BE375516 601225402
17	151.4	43.4	618	9 A1789325	A1789325 uk53g07.y

18	151.4	43.4	634	10 BG965994	BG965994 602829788
19	151.4	43.4	637	10 BG311676	BG311676 lb27q07.y
20	151.4	43.4	645	9 BB655642	BB655642 BB655642
21	151.4	43.4	702	10 B1684284	B1684284 603308113
22	151.4	43.4	712	10 BE306588	BE306588 601102908
23	151.4	43.4	729	10 B1853406	B1853406 603379995
24	151.4	43.4	739	10 BF144880	BF144880 601790276
25	151.4	43.4	742	10 B1683807	B1683807 603306188
26	151.4	43.4	753	10 BE915228	BE915228 601666591
27	151.4	43.4	764	10 B1557907	B1557907 603237515
28	151.4	43.4	776	10 B1151335	B1151335 602917318
29	151.4	43.4	778	10 B1656239	B1656239 60283026
30	151.4	43.4	794	10 B1688334	B1688334 603316656
31	151.4	43.4	810	10 B1328365	B1328365 602985691
32	151.4	43.4	827	10 B1330726	B1330726 602982686
33	151.4	43.4	851	10 B1662371	B1662371 603305935
34	151.4	43.4	861	10 BG863754	BG863754 602796739
35	151.4	43.4	861	10 B1687916	B1687916 603314064
36	151.4	43.4	926	10 B1730403	B1730403 603350714
37	151.4	43.4	931	10 B1651607	B1651607 603298088
38	151.4	43.4	952	10 W44018	W44018 mc72a11.r1
39	151.4	43.4	991	10 BG172725	BG172725 602337151
40	151.4	43.4	1099	10 BM460904	BM460904 AGENCOURT
41	151.4	43.4	1121	10 B1695068	B1695068 603345394
42	151.4	43.4	1141	10 BM461299	BM461299 AGENCOURT
43	151.4	43.4	1367	11 AK002296	AK002296 Mus muscu
44	151	43.3	922	10 BF100565	BF100565 601753871
45	149.8	42.9	524	9 AA423666	AA423666 ve77c09.r

ALIGNMENTS

RESULT 1	BG404028	931 bp	mrna	linear	EST 12-MAR-2001
LOCUS	602419909F1	NIH_MGC_94	Mus musculus	cdna	clone IMAGE:4526859 5',
DEFINITION	mRNA sequence.				
ACCESSION	BG404028				
VERSION	BG404028.1	GI:13297476			
KEYWORDS	EST.				
SOURCE	house mouse.				
ORGANISM	Mus musculus				
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
AUTHORS	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.				
TITLE	NIH-MGC http://mgc.nci.nih.gov/ .				
JOURNAL	National Institutes of Health, Mammalian Gene Collection (MGC)				
COMMENT	Unpublished (1999) Contact: Robert Strausberg, Ph.D.				

FEATURES

Location/Qualifiers
1..931
/organism="Mus musculus"
/db_xref="taxon:10090"
/clone="IMAGE:4526859"
/clone_lib="NIH_MGC_94"
/tissue_type="retina"
/lab_host="DH10B (phage-resistant)"
/note="organ: eye; vector: pCMV-SPORT6; Site_1: NotI;
Site_2: SalI; Cloned unidirectionally; oligo-dt primed.
Average insert size 3.3 Kb. Library enriched for
full-length clones and constructed by Life Technologies.
Note: this is a NIH_MGC Library."

BASE COUNT	271 a	193 c	251 g	216 t	
ORIGIN					
Query Match	47.8%	Score 166.8;	DB 10;	Length 931;	
Best Local Similarity	74.7%	Pred. No. 3.4e-39;			
Matches	215;	Conservative	0;	Mismatches 70;	Indels 3;
Gaps	2;				
QY	62	TTGTGGGCGCTANAGCNCATATCATCGGCTGCGNACTATGGCTCACCTTCACCCGANA	121		
DB	220	TTCGCGAACCTTAAGACAAAATTAAGGGTCTGCAACTATGGCTCACCTTCACCCAAA	279		
QY	122	NGNGGAGTACGAGCTACTCTTTGGACAGACCTTTTGTGAGAGAATNTGCGATGCTGAN	181		
DB	280	AGTGAATACAGACAATACTCTTTGGACAGAAATCTTTGGAGAAATAAG--TTGCGCTGAA	338		
QY	182	GGGTTNAACTGACTCTCGATACCATATTTTACCATNCNCTCCNATCCTTTTATGGCCA	241		
DB	339	GGGTTGAACTGACTCTTATACCATATTTTACCACACAGGAA--AGAAGAGTGCGGA	396		
QY	242	TTTCCCGGCTCTATTCCGNGNATTCNTNANCTCGGCAGTAATCTTCATNTNNATT	301		
DB	397	AATTAAGGGCTCTATACAGGGATTTGTTAGTCTCGGCAGTAATTTGATATAGATT	456		
QY	302	TTTCTGGACGACCATCTATGGCTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	349		
DB	457	TTTCTGGACGACCATCTATGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	504		
RESULT 2					
BI217860					
LOCUS					
DEFINITION					
ACCESSION					
VERSION					
KEYWORDS					
SOURCE					
ORGANISM					
REFERENCE					
AUTHORS					
TITLE					
JOURNAL					
COMMENT					
BASE COUNT	209 a	156 c	192 g	196 t	
ORIGIN					
Query Match	45.6%	Score 159;	DB 10;	Length 753;	
Best Local Similarity	76.8%	Pred. No. 6.7e-37;			
Matches	202;	Conservative	0;	Mismatches 59;	Indels 2;
Gaps	2;				
QY	88	ATGGGCTGCNACTATGGCTCACCTTCACCCANANGGAGTACNGACGCTACTCTTTGGG	147		
DB	248	AAAGTCTGCAACTATGGCTCACCTTCACCCAAAAGTGGATACAGACAATCTCTTTGGG	307		
QY	148	ACAGACCTTTTGTGAGAAATNTGATGGCTGANGGGTTTAACTGACTCTCGATACCAT	207		
DB	308	ACAGAAATCTCTTTGGGAGAAATAAG--TTGGCTTGAAGGGTTGAACATGACTCTTGA	366		
QY	208	ATTNTACCATNCNCTCCNATCCTTTTAGTGCCATTTTCCGGGCTCCTATTGCGCNGAT	267		
DB	367	ATTGTACCAACACAGAAAGAGAGTGGAAATCTAAAGGCTCCTATACACGGGAT	426		
QY	268	TGNTNNANTCTCGGAGTAATGTTGATNTNNATTTTCTTGACCGACCATCTATGGCT-G	326		
DB	427	TGTTTTAGTCTCGGAGTAATGTTGATATAGATTTTCTTGACCGACCATCTATGGCTGG	486		
QY	327	TCGTGNTTTGGCTTTGAAGGTTG	349		
DB	487	GCTGTGCTGCGCTTTGAAGCTTG	509		
RESULT 3					
BE374222					
LOCUS					
DEFINITION					
ACCESSION					
VERSION					
KEYWORDS					
SOURCE					
ORGANISM					
REFERENCE					
AUTHORS					
TITLE					
JOURNAL					
COMMENT					
BASE COUNT	136 a	80 c	115 g	124 t	
ORIGIN					
Query Match	43.4%	Score 151.4;	DB 10;	Length 455;	
Best Local Similarity	77.6%	Pred. No. 1.1e-34;			
Matches	204;	Conservative	0;	Mismatches 55;	Indels 4;
Gaps	3;				
QY	88	ATGGGCTGCNACTATGGCTCACCTTCACCCANANGGAGTACNGACGCTACTCTTTGGG	147		
DB	196	AAAGTCTGCAACTATGGCTCACCTTCACCCAAAAGTGGATACAGACAATCTCTTTGGG	255		

Db	202	AAAGTCTGCAACTATGGGCTCACCTTCACCCAAAGTGGAAATACAGCAATACTCTTGGG	261
Qy	148	ACAGACCTTTTNGAGAAATNGCATGGCTGANGGGTTNAAAGTACACTCTCGATACCAT	207
Db	262	ACAGAAATCTCTGTGAGAATAAG-TTGCTGAAGGGTTGAAACTGACACTCTTGATACCAT	320
Qy	208	ATTNTTACCATNCTCCNATCCCTTTTAGTGCCATTTTCCCGGCCCTCTATTGCCNGNAT	267
Db	321	ATTGTACCAACACAGGAA--AGAAGAGTGGGAAATTAAGGCCCTCTATAGACGGAT	378
Qy	268	TGNTNNATCTCCGCAGTAAATGTGATNTNNAATTTTTCTGGACCGACCATCTATGGCT-G	326
Db	379	TGTTTAGTCTCGCAGTAATGTGATATAGATTTTTCTGGACCGACCATCTATGGCTGG	438
Qy	327	TCGTGNNTTGGCCCTTGAAGGTTG	349
Db	439	GCTGTGTTGGCCCTTGAAGGTTG	461
RESULT 5			
LOCUS	BG099892		
DEFINITION	uy13604.y1 McCarrey Eddy spermatocytes Mus musculus cDNA clone	476 bp	linear
SOURCE	IMAGE:3658062 5' similar to SW:POR3_MOUSE Q06931 VOLTAGE-DEPENDENT ANION-SELECTIVE CHANNEL PROTEIN 3 ; , mRNA sequence.		
ACCESSION	BG099892	1	GI:12595144
VERSION	BG099892.1		
KEYWORDS	EST.		
SOURCE	house mouse.		
ORGANISM	Mus musculus		
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.		
AUTHORS	1 (bases 1 to 476) Marra,M., Hillier,L., Kucaba,T., Martin,J., Beck,C., Wylie,T., Underwood,K., Steptoe,M., Theising,B., Allen,M., Bowers,Y., Person,B., Swaller,T., Gibbons,M., Pape,D., Harvey,N., Schurk,R., Ritter,E., Kohn,S., Shin,T., Jackson,Y., Cardenas,M., McCann,R., Waterston,R. and Wilson,R.		
TITLE	The WashU-NCI Mouse EST Project 1999		
JOURNAL	Unpublished (1999)		
COMMENT	Contact: Marra M/WashU-NCI Mouse EST Project 1999 Washington University School of Medicine 4444 Forest Park Parkway, Box B501, St. Louis, MO 63108, USA Tel: 314 286 1800 Fax: 314 286 1810 Email: mouseest@watson.wustl.edu This clone is available royalty-free through LBNL ; contact the IMAGE Consortium (info@image.lbnl.gov) for further information. MGI:1420366		
FEATURES	Seq primer: Primer name ambiguous High quality sequence stop: 401. Location/Qualifiers		
SOURCE	1..476 /organism="Mus musculus" /strain="CD-1" /db_xref="taxon:10090" /clone="IMAGE:3658062" /clone_lib="McCarrey Eddy spermatocytes" /sex="male" /tissue_type="spermatocytes, pooled from multiple mice" /dev_stage="60 day" /lab_host="DH10B (phage-resistant)" /note="organ: testis; Vector: pBluescript SK+ (Stratagene [Site 1: XhoI; Site 2: EcoRI; cDNA oligo dt-primed 5'- (GA)10- ACTAGTCTCCAGTCTTTTTTTT-3' and directionally cloned using 5' linkers 5'-AATTCGGCAGCAG-3' and 5'-CTCGTGGCG-3'. Size selection of >400bp material gives average insert size ranging from 1-2 kb. Library was mass excised (from lambda-UniZAP-XR) and resulting single-stranded phagemids were prepped and transformed into DH10B. Library contains 98% recombinants. References: J. Androl. 20:635-639 and Gene 25:263-269.		


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/sex="female (lactating)"
/tissue-type="mammary gland"
/lab_host="DH10B"
/notes="Vector: pT73D-Pac (Pharmacia) with a modified
polylinker; 1st strand cDNA was prepared from mammary
gland tissue from a lactating female, and was then primed
with a Not I - oligo(dT) primer. Double-stranded cDNA was
ligated to Eco RI adaptors (Pharmacia), digested with Not
I and cloned into the Not I and Eco RI sites of the
modified pT73 vector. Library is normalized. Library
was constructed by Bento Soares and M. Fatima Bonaldo."
BASE COUNT      157 a 103 c 138 g 145 t
ORIGIN
Query Match      43.4%; Score 151.4; DB 10; Length 543;
Best Local Similarity 77.6%; Pred. No. 1.le-34;
Matches 204; Conservative 0; Mismatches 55; Indels 4; Gaps 3;
QY 88 ATGGCTGCNACTATGGCTCACCTTCACCCANANGGAGTACNGACGGTACTCTTGGG 147
DB 220 AAGGTCTGCACTATGGCTCACCTTCACCCAAAAGTGAATACAGACAATCTCTGGG 279
QY 148 ACAGACCTTTTNGAGAAATNGCATGGCTGANGGGTTNAACTGACTCTCGATACCAT 207
DB 280 ACAGAAATCTCTTGGGAGAATAAG-TTGGCTGAAGGGTTGAACACTGACTCTTGATACCAT 338
QY 208 ATTTTACCATNCCTCCNATCCTTTTGTAGTGCCATTTTCCCGGCTCCTTATTCGCCNGNAT 267
DB 339 ATTTGTACCAACACAGGAA--AGAAGAGTGGGAAATTAAGGCTCCTATAGACGGGAT 396
QY 268 TGTNNANTCTGGCAGTAATCTTGATNTNNAATTTTTCGGACCGACCATCTATGGCT-G 326
DB 397 TGTTTAGTCTCGGAGTAATCTTGATATAGATTTTTCGGACCGACCATCTATGGCTGG 456
QY 327 TCTGNNTTGGCCTTTGAAGGTTG 349
DB 457 GCTGTGTTGGCCTTTGAAGGTTG 479
RESULT 8
LOCUS      AA238931      557 bp      mRNA      linear      EST 03-MAR-1997
DEFINITION my36911.r1 Barstead mouse pooled organs MPLRB4 Mus musculus cDNA
clone IMAGE:697988 5' similar to TR:G1098621 G1098621 VOLTAGE
DEPENDENT ANION CHANNEL 3. ;, mRNA sequence.
ACCESSION  AA238931
VERSION     AA238931.1 GI:1863143
KEYWORDS    EST.
SOURCE      house mouse.
ORGANISM    Mus musculus
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE   1 (bases 1 to 557)
AUTHORS     Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T.,
            Geisel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M.,
            Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B.,
            Theising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and
            Waterston,R.
            The WashU-HMI Mouse EST Project
            Unpublished (1996)
            Contact: Marra M/Mouse EST Project
            WashU-HMI Mouse EST Project
            Washington University School of Medicine
            4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
            Tel: 314 286 1800
            Fax: 314 286 1810
            Email: mouseest@watson.wustl.edu
            This clone is available royalty-free through LLNL; contact the
            IMAGE Consortium (info@image.llnl.gov) for further information.
            MGI:431548
            Possible reversed clone: similarity on wrong strand
            Seq primer: -28m13 rev2 ET from Amersham
            High quality sequence stop: 413.

/sex="female (lactating)"
/tissue-type="mammary gland"
/lab_host="DH10B"
/notes="Vector: pT73D-Pac (Pharmacia) with a modified
polylinker; 1st strand cDNA was prepared from mammary
gland tissue from a lactating female, and was then primed
with a Not I - oligo(dT) primer. Double-stranded cDNA was
ligated to Eco RI adaptors (Pharmacia), digested with Not
I and cloned into the Not I and Eco RI sites of the
modified pT73 vector. Library is normalized. Library
was constructed by Bento Soares and M. Fatima Bonaldo."
BASE COUNT      157 a 103 c 138 g 145 t
ORIGIN
Query Match      43.4%; Score 151.4; DB 10; Length 543;
Best Local Similarity 77.6%; Pred. No. 1.le-34;
Matches 204; Conservative 0; Mismatches 55; Indels 4; Gaps 3;
QY 88 ATGGCTGCNACTATGGCTCACCTTCACCCANANGGAGTACNGACGGTACTCTTGGG 147
DB 220 AAGGTCTGCACTATGGCTCACCTTCACCCAAAAGTGAATACAGACAATCTCTGGG 279
QY 148 ACAGACCTTTTNGAGAAATNGCATGGCTGANGGGTTNAACTGACTCTCGATACCAT 207
DB 280 ACAGAAATCTCTTGGGAGAATAAG-TTGGCTGAAGGGTTGAACACTGACTCTTGATACCAT 338
QY 208 ATTTTACCATNCCTCCNATCCTTTTGTAGTGCCATTTTCCCGGCTCCTTATTCGCCNGNAT 267
DB 339 ATTTGTACCAACACAGGAA--AGAAGAGTGGGAAATTAAGGCTCCTATAGACGGGAT 396
QY 268 TGTNNANTCTGGCAGTAATCTTGATNTNNAATTTTTCGGACCGACCATCTATGGCT-G 326
DB 397 TGTTTAGTCTCGGAGTAATCTTGATATAGATTTTTCGGACCGACCATCTATGGCTGG 456
QY 327 TCTGNNTTGGCCTTTGAAGGTTG 349
DB 457 GCTGTGTTGGCCTTTGAAGGTTG 479
RESULT 9
LOCUS      AA153192      573 bp      mRNA      linear      EST 12-FEB-1997
DEFINITION ms62f10.r1 Stratagene mouse embryonic carcinoma (#937317) Mus
musculus cDNA clone IMAGE:616171 5' similar to TR:G1098621 G1098621
VOLTAGE DEPENDENT ANION CHANNEL 3. ;, mRNA sequence.
ACCESSION  AA153192
VERSION     AA153192.1 GI:1724841
KEYWORDS    EST.
SOURCE      house mouse.
ORGANISM    Mus musculus
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE   1 (bases 1 to 573)
AUTHORS     Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T.,
            Geisel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M.,
            Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B.,
            Theising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and
            Waterston,R.
            The WashU-HMI Mouse EST Project
            Unpublished (1996)
            Contact: Marra M/Mouse EST Project
            WashU-HMI Mouse EST Project
            Washington University School of Medicine
            4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
            Tel: 314 286 1800
            Fax: 314 286 1810
            Email: mouseest@watson.wustl.edu
            This clone is available royalty-free through LLNL; contact the
            IMAGE Consortium (info@image.llnl.gov) for further information.
            MGI:431548
            Possible reversed clone: similarity on wrong strand
            Seq primer: -28m13 rev2 ET from Amersham
            High quality sequence stop: 413.
```

Fax: 314 286 1810

Email: mouseest@atson.wustl.edu

This clone is available royalty-free through LBNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.

MGI:376995

Possible reversed clone: similarity on wrong strand

Seq primer: -28m13 rev1 ET from Amersham

High quality sequence stop: 444.

FEATURES

source
Location/Qualifiers
1..573

/organism="Mus musculus"

/db_xref="taxon:10090"

/clone_image="616171"

/clone_lib="Stratagene mouse embryonic carcinoma (#937317)

/tissue_type="carcinoma"

/dev_stage="embryonic"

/lab_host="SOLR (kanamycin resistant)"

/note="Vector: pBluescript SK-; Site:1; EcoRI; Site:2;

XhoI; Cloned unidirectionally. Primer: Oligo dt. P19 cell

line. Average insert size: 1.0 kb; Uni-ZAP XR Vector; -5'

adaptor sequence: 5' GAATTCGGCAGAG 3' -3' adaptor

sequence: 5' CTCGAGTTTTTTTTTTTTTTT 3'

159 a 113 c 153 g 148 t

BASE COUNT

ORIGIN

Query Match 43.4%; Score 151.4; DB 9; Length 573;

Best Local Similarity 77.6%; Pred. No. 1.1e-34;

Matches 204; Conservative 0; Mismatches 55; Indels 4; Gaps 3;

QY 88 ATGGGCTGCNACTATGGGCTACCTTCACCCANANGNGAGTACNGAGGTACTCTTTGGG 147

Db 271 AAGGTCTGCAACTATGGGCTACCTTCACCCAAAGTGGAAATACACACATCTCTTTGGG 330

QY 148 ACAGACCTTTTNGAGAAATNGCATGGCTGANGGGTTNAAACTGACTCTCGATACCAT 207

Db 331 ACAGAAATCTCTTGGGAGATAAG-TTGGCTGAAGGTTTGAAGTCTCTTATACCAT 389

QY 208 ATTNTACCATNCNCTCCNATCCTTTTAGTGCCATTTTCCCGCCCTCTATTCGCNAT 267

Db 390 ATTGTACCAACACAGGAA--AGAAGAGTGGGAAATTAAGGCCCTCTATAGACGGAT 447

QY 268 TGNNTNANTCTCGGCAGTAAATGTGATNTNNTTTTCTGGACCGACCATCTATGGCT-G 326

Db 448 TGTTTAGTCTCGGCAGTAAATGTGATATAGATTTTCTGGACCGACCATCTATGGCTGG 507

QY 327 TCTGNTTGGCCTTTGAAGTTG 349

Db 508 GCTGTGTGGCCTTTGAAGTTG 530

RESULT 10

BG801735

LOCUS

DEFINITION

0114-09 Mouse E14.5 retina lambda ZAP II Library Mus musculus cDNA,

EST.

ACCESSION

BG801735

VERSION

BG801735.1

KEYWORDS

EST

SOURCE

house mouse.

ORGANISM

Mus musculus

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

0114-09 Mouse E14.5 retina lambda ZAP II Library Mus musculus cDNA,

EST.

ACCESSION

BG801735

VERSION

BG801735.1

KEYWORDS

EST

SOURCE

house mouse.

ORGANISM

Mus musculus

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

0114-09 Mouse E14.5 retina lambda ZAP II Library Mus musculus cDNA,

EST.

ACCESSION

BG801735

VERSION

BG801735.1

FEATURES

source

Location/Qualifiers

1..600

/organism="Mus musculus"

/db_xref="taxon:10090"

/clone_lib="Mouse E14.5 retina lambda ZAP II Library"

/tissue_type="neural retina"

/dev_stage="embryonic day 14.5 post-fertilization"

170 a 118 c 151 g 161 t

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches

Conservative

0;

Mismatches

55;

Indels

4;

Gaps

3;

QY 88 ATGGGCTGCNACTATGGGCTACCTTCACCCANANGNGAGTACNGAGGTACTCTTTGGG 147

Db 217 AAGGTCTGCAACTATGGGCTACCTTCACCCAAAGTGGAAATACACATCTCTTTGGG 276

QY 148 ACAGACCTTTTNGAGAAATNGCATGGCTGANGGGTTNAAACTGACTCTCGATACCAT 207

Db 277 ACAGAAATCTCTTGGGAGATAAG-TTGGCTGAAGGTTTGAAGTCTCTTATACCAT 335

QY 208 ATTNTACCATNCNCTCCNATCCTTTTAGTGCCATTTTCCCGCCCTCTATTCGCNAT 267

Db 336 ATTGTACCAACACAGGAA--AGAAGAGTGGGAAATTAAGGCCCTCTATAGACGGAT 393

QY 268 TGNNTNANTCTCGGCAGTAAATGTGATNTNNTTTTCTGGACCGACCATCTATGGCT-G 326

Db 394 TGTTTAGTCTCGGCAGTAAATGTGATATAGATTTTCTGGACCGACCATCTATGGCTGG 453

QY 327 TCTGNTTGGCCTTTGAAGTTG 349

Db 454 GCTGTGTGGCCTTTGAAGTTG 476

RESULT 11

BG801778

LOCUS

DEFINITION

0114-88 Mouse E14.5 retina lambda ZAP II Library Mus musculus cDNA,

EST.

ACCESSION

BG801778

VERSION

BG801778.1

KEYWORDS

EST.

SOURCE

house mouse.

ORGANISM

Mus musculus

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

0114-88 Mouse E14.5 retina lambda ZAP II Library Mus musculus cDNA,

EST.

ACCESSION

BG801778

VERSION

BG801778.1

KEYWORDS

EST.

SOURCE

house mouse.

ORGANISM

Mus musculus

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

0114-88 Mouse E14.5 retina lambda ZAP II Library Mus musculus cDNA,

EST.

ACCESSION

BG801778

VERSION

BG801778.1

KEYWORDS

EST.

SOURCE

house mouse.

Tel: 713 792 3646

Fax: 713 790 0329.

Location/Qualifiers

1..600

/organism="Mus musculus"

/db_xref="taxon:10090"

/clone_lib="Mouse E14.5 retina lambda ZAP II Library"

/tissue_type="neural retina"

/dev_stage="embryonic day 14.5 post-fertilization"

170 a 118 c 151 g 161 t

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches

Conservative

0;

Mismatches

55;

Indels

4;

Gaps

3;

QY 88 ATGGGCTGCNACTATGGGCTACCTTCACCCANANGNGAGTACNGAGGTACTCTTTGGG 147

Db 217 AAGGTCTGCAACTATGGGCTACCTTCACCCAAAGTGGAAATACACATCTCTTTGGG 276

QY 148 ACAGACCTTTTNGAGAAATNGCATGGCTGANGGGTTNAAACTGACTCTCGATACCAT 207

Db 277 ACAGAAATCTCTTGGGAGATAAG-TTGGCTGAAGGTTTGAAGTCTCTTATACCAT 335

QY 208 ATTNTACCATNCNCTCCNATCCTTTTAGTGCCATTTTCCCGCCCTCTATTCGCNAT 267

Db 336 ATTGTACCAACACAGGAA--AGAAGAGTGGGAAATTAAGGCCCTCTATAGACGGAT 393

QY 268 TGNNTNANTCTCGGCAGTAAATGTGATNTNNTTTTCTGGACCGACCATCTATGGCT-G 326

Db 394 TGTTTAGTCTCGGCAGTAAATGTGATATAGATTTTCTGGACCGACCATCTATGGCTGG 453

QY 327 TCTGNTTGGCCTTTGAAGTTG 349

Db 454 GCTGTGTGGCCTTTGAAGTTG 476

RESULT 11

BG801778

LOCUS

DEFINITION

0114-88 Mouse E14.5 retina lambda ZAP II Library Mus musculus cDNA,

EST.

ACCESSION

BG801778

VERSION

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ORGANISM

Mus musculus

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0114-88 Mouse E14.5 retina lambda ZAP II Library Mus musculus cDNA,

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Mus musculus

REFERENCE

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0114-88 Mouse E14.5 retina lambda ZAP II Library Mus musculus cDNA,

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Tel: 713 792 3646

Fax: 713 790 0329.

Location/Qualifiers

1..600

/organism="Mus musculus"

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/clone_lib="Mouse E14.5 retina lambda ZAP II Library"

/tissue_type="neural retina"

/dev_stage="embryonic day 14.5 post-fertilization"

170 a 118 c 151 g 161 t

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches

Conservative

0;

Mismatches

55;

Indels

4;

Gaps

Matches	204:	Conservative	0:	Mismatches	55:	Indels	4:	Gaps	3:
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Qy	88	ATGGGCTGCNACTATGGCTTCACCTTCACCCANANGNGGACTACNACGGTACTCTTTGGG	147
Db	217	AAGGCTTGCAACTATGGGCTCACCTTCACCCAAAGTGAATACAGACAATACTCTTGGG	276
Qy	148	ACAGACCTTTTTTNGAGAAATNCGATGGCTGANGGGTTNAACTGACTCTCGATACCAT	207
Db	277	ACAGAAATCTCTCGGAGAAATAAG-TTGGCTGGAAGGGTTGAACATGACTCTTGATACCAT	335
Qy	208	ATTNTACCATNCNCTCCNATPCCTTTTGTAGGCCAATTTTCCGGGCTCTCTATTGCCGNAT	267
Db	336	ATTTGTACCAACACAGGAA--AGAAGAGTGGGAAATTAAGAGGGCTCTCTATAGACGGGAT	393
Qy	268	TGNTNNANTCTCGGCAGTAATGTGTGATNTNNATTTTCTTGGACCGACCATCTATGGCT-G	326
Db	394	TGTTTATAGCTCGGCAGTAATGTGTGATATAGATTTTCTTGGACCGACCATCTATGGCTGG	453
Qy	327	TCTGNNTTGGCCTTTGAAGGTTG	349
Db	454	GCTGTGTGGCCTTTGAAGCTTG	476

RESULT 12	AA238738	601 bp	mrna	linear	EST 03-MAR-1997
LOCUS	AA238738				
DEFINITION	my35109.r1 Barstead mouse pooled organs MPLRB4 Mus musculus cDNA clone IMAGE:697889 5' similar to TR:G1098621 G1098621 VOLTAGE DEPENDENT ANION CHANNEL 3. ; mRNA sequence.				

ACCESSION AA238738
VERSION AA238738.1 GI:1862785
KEYWORDS EST.

SOURCE	ORGANISM
house mouse.	Mus musculus.
Eukaryota:	Metazoa: Chordata: Vertebrata: Euteleostomi:
Mammalia: Eutheria:	Chordata: Rodentia: Sciurognathi: Muridae: Murinae: Mus.
1 (bases 1 to 601)	
Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T.,	
Geisel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M.,	
Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B.,	
Theising, B., Wylie, T., Lennon, G., Soares, B., Willson, R. and	
Watston, R.	

TITLE The WashU-HHMI Mouse EST Project
JOURNAL Unpublished (1996)
COMMENT Contact: Marra M/Mouse EST Project
WashU-HHMI Mouse EST Project
Washington University School of MedicineP
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LInL ; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
MGI:431449
Possible reversed clone: similarity on wrong strand
Seq primer: -28m13 rev2 ET from Amersham
High quality sequence stop: 506.

FEATURES	Location/Qualifiers
source	1..601
	/organism="Mus musculus"
	/strain="FVB/N"
	/db_xref="taxon:10090"
	/clone_image:697889
	/clone_lib="Barstead mouse pooled organs MFLRB4"
	/sex="mixed"
	/tissue_type="pooled organs"
	/dev_stage="7 day"
	/lab_host="DH10B"
	/note="Organ: pooled; Vector: pT7M3D-Pac (Pharmacia) with a modified polylinker; Site_1: EcoRI; Site_2: NotI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5 TGTTACCAATCTGAAGTGGAGCGCCGCCCCCTTTTTTTTTTTTTTTTTT 3']; double-stranded cDNA was ligated to Eco RI adaptors

[GTGGATCGGTACC], digested with Not I and cloned into the Not I and Eco RI sites of the modified p7T73 vector. Library constructed by Bob Barstead."

BASE COUNT	172 a	120 c	149 q	160 t
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Query Match	43.4%	Score 151.4;	DB 9;	Length 601;
Best Local Similarity	77.6%	Pred. No. 1.2e-34;		
Matches 204;	Conservative	0;	Mismatches 55;	
			Indels 4;	Gaps 3;

Qy	88	ATGGGTCGCNACTATGGGCTCACCTTCAACCCANANGNGAGTGACNGAGCGGTACTCTTTGGG	147
<div style="height: 1em; background-color: black;"></div>			
Dh	230	AAGGTCGCAACTATGGGCTCACCTTCAACCCAAAAGTGAATACAGACAATACTCTTTGGG	289

DQ 148 ACAGACCTCTTTTTCGAGAAATTCATGGCTCGAAGGGTTAAACATGACTCTCGATACCAT 207
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DP 290 ACAGAATCTCTTTGGAGAAATAAG - TTGGCTGAAGGGTTGAAC TGACTCTTGATACCAT 348

QY 208 ATTTATACCAATCNCATCCNATACCTTTATAGTGGCATTTTCCCTCCGCTCTCTATATACCCGCGAT 207

Db 349 ATTTGTACCAAAACACAGGAA--AGAGAGTGGGAAATTAAGGCCCTCTCTATAGACGGGAT 406

Db 407 TGTTTTACTCGCGACTAATGTTGATATAGATTTTCTGGACCGACCATCTATGGCTGG 456

Db 467 GCTGTGTGGCCTTGAAGGTG 489

RESULT 13
AW742453

LOCUS AW742453 612 bp mRNA linear EST 07-SEP-2000
DEFINITION up57c12.y1 Soares_mouse.NM1F Mus musculus cDNA clone
5', similar to SW:POR3_MOUSE Q60931 VOLTAGE-DEPENDENT
ANION-SELECTIVE CHANNEL PROTEIN 3 ;, mRNA sequence.

ACCESSION	AW742453	
VERSION	AW742453.1	GI:7654242
KEYWORDS	EST.	
SOURCE	house mouse.	
ORGANISM	Mus musculus	

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 1 Mammalia; Eutheria; Rodentia; Sclurognathi; Muridae; Murinae; Mus.
 NC-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 Tumor Gene Index
 Unpublished (1997)

Other ESTs: up57c12.x1
Contact: Robert Strausberg, ph.D.
Email: cgapbs-remail.nih.gov
This clone is available royalty-free through LNL; contact the
IMAGE Consortium (infoimage.llnl.gov) for further information.
Seq primer: -40RP from Gibco
High quality sequence stop: 462.

FEATURES	Location/Qualifiers	source
	1..612	
	/organism="Mus musculus"	
	/strain="C3H x 101 (F1 stock)"	
	/db_xref="taxon:10090"	
	/clone="IMAGE:2780182"	
	/clone_lib="Soares_mouse_NMIE"	
	/sex="male"	
	/dev_stage="newborn"	
	/lab_host="DH10B"	
	/note="Organ: inner ear, 170 pooled; Vector: pT7T3B-Pac; Site.1: Not I; Site.2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5']	
	TGTTACCAATCTGAAGTGGGAGCGGCCACACTTTTTTTTTTTTTTTTTTTTTT	
	3']; double-stranded cDNA was ligated to Eco RI adaptors (pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library	

/note="Organ: mammary; Vector: pCMV-SPORT6; Site_1: SalI;
Site_2: NotI; Cloned unidirectionally. Primer: Oligo dT.
Library constructed by Life Technologies Investigator
providing samples: Jeffrey Green, M.D., NIH"

BASE COUNT	176 a	122 c	154 g	164 t
ORIGIN				
Query Match	43.4%	Score 151.4;	DB 10;	Length 616;
Best Local Similarity	77.6%	Pred. No. 1.2e-34;		
Matches 204;	Conservative 0;	Mismatches 55;	Indels 4;	Gaps 3;
Qy 88	ATGGGCTGCNACTATGGGCTACCTTCACCCANANGNGAGTACNGACGGTACTCTTGGG	147		
Db		214		
Qy 148	ACAGACCTTTTTCGNCAGAAATGTCATGGCTGANGGGTTNAAACTGACTCTCGATACCAT	207		
Db		274		
Qy 208	ATTTTACCATNCNCTCCNATCCTTTTAGTGCCATTTTCCGGCCCTCTATTGCCGNAT	267		
Db		333		
Qy 268	TGNTNNANTCTCGGAGTAATGTTGATNNNATTTTCTGGACCGACCATCTATGGCT-G	326		
Db		391		
Qy 327	TCTGNNTTGGCCCTTTGAAGGTTG	349		
Db		451		

Search completed: October 23, 2002, 22:49:49
Job time : 1599 secs